

What is claimed is:

1. An injection molding apparatus for seal member in which a molten resin is injected by way of a gate into a cavity formed by mating a moving mold with a stationary mold;

5 the injected resin is cut by means of a gate seal pin provided on the moving side while sealing the gate;  
and

10 a seal member left on the movable side is ejected by means of a plurality of ejector pins provided on the moving side under a condition of opening said moving mold from said stationary mold, thereby molding the seal member;

15 the injection molding apparatus being provided with defined convex portions on said moving mold and the defined convex portions forming recesses of wall thickness at portions not serving as sealing faces of the seal member.

2. The injection molding apparatus for seal member according to claim 1, wherein ejecting position of the ejector pins is adapted to come to the portions not serving as sealing faces of the seal member.

20 3. The injection molding apparatus for seal member according to claim 2, wherein said gate seal pin performs a function of ejecting the seal member left on the moving side in cooperation with said ejector pins, and ejecting position of said gate seal pin is adapted to come to the portions not serving as sealing faces of the seal member.

25 4. The injection molding apparatus for seal member according to claim 1, wherein the seal member is adapted to be used in valve timing adjustment devices.

30 5. An injection molding apparatus for seal member in which a molten resin is injected by way of a gate into a cavity formed

by mating a moving mold with a stationary mold;

the injected resin is cut by means of a gate seal pin provided on the moving side while sealing the gate; and

5 a seal member left on the movable side is ejected by means of a plurality of ejector pins provided on the moving side under a condition of opening said moving mold from said stationary mold, thereby molding the seal member;

10 the injection molding apparatus being provided with defined concave portions on said moving mold and the defined concave portions forming ribs at portions not serving as sealing faces of the seal member.

15 6. The injection molding apparatus for seal member according to claim 5, wherein ejecting position of the ejector pins is adapted to come to the portions not serving as sealing faces of the seal member.

20 7. The injection molding apparatus for seal member according to claim 6, wherein said gate seal pin performs a function of ejecting the seal member left on the moving side in cooperation with said ejector pins, and ejecting position of said gate seal pin is adapted to come to the portions not serving as sealing faces of the seal member.

8. The injection molding apparatus for seal member according to claim 5, wherein the seal member is adapted to be used in valve timing adjustment devices.